AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A water temperature sensor comprising:

a temperature measuring part for measuring a temperature of water;

a water gauge chamber extending along one side of an outer edge of an outer tub of a washing machine; and

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a hollow chamber cap located at ~~the~~ a bottom edge of ~~a~~ the water gauge chamber ~~within a washing machine~~, ~~having a seating portion on a predetermined place for installing~~ the temperature measuring part being mounted in a seating portion of the hollow chamber cap.

2. (Currently Amended) The water temperature sensor of claim 1, further comprising a heat insulating material inserted into a hollow space ~~thereof~~ of the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

3. (Currently Amended) A water temperature sensor comprising:

a temperature measuring part including a temperature detecting sensor for measuring the temperature of water, and signal lines for connecting the temperature detecting sensor with a circuit requiring the measured value; and

a hollow chamber cap ~~located at the bottom edge~~ fitting into and thereby closing an opened bottom portion of ~~the~~ a water gauge chamber, a hollow space of the hollow chamber cap facing downward, ~~having a recess underneath the top surface thereof to mount~~

wherein the temperature measuring part ~~within~~ is disposed in a recess formed underneath a top surface of the hollow chamber cap, so that the water temperature is measured without directly contacting with water.

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4. (Currently Amended) The water temperature sensor of claim 3, further comprising a heat insulating material inserted into ~~a~~ the hollow space ~~thereof~~ of the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

5. (Currently Amended) A water temperature sensor comprising:

a temperature measuring part including a temperature detecting sensor for measuring the temperature of water, signal lines for connecting the temperature detecting sensor with a circuit requiring the measured value, and a cylindrical probe containing the temperature detecting sensor and the signal lines; and

a hollow chamber cap, located on ~~the~~ a bottom edge of ~~the~~ a water gauge chamber, ~~having a hole at the center thereof so that the~~

wherein ~~a~~ the cylindrical probe of the temperature measuring part ~~is~~ extends upward from within the hollow chamber cap through a hole at a center of the hollow chamber cap, thereby directly ~~contacted with the~~ contacting a washing water in the water gauge chamber after penetrating the hole.

6. (Currently Amended) The water temperature sensor of claim 5, further comprising a heat insulating material inserted into a hollow space ~~thereof~~ of the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

7. (Canceled)

8. (New) The water temperature sensor of claim 1, wherein the hollow chamber cap is welded to the bottom edge of the water gauge chamber.

9. (New) The water temperature sensor of claim 1, wherein a bottom edge of the hollow chamber cap is substantially level with a bottom edge of the outer tub.

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10. (New) The water temperature sensor of claim 1, wherein the hollow chamber cap is formed of epoxy resin.